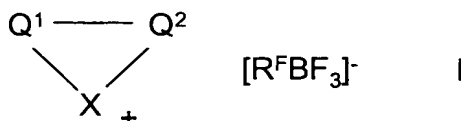


This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Compounds of the formula I



in which

X denotes NR^1 or $\text{N}(\text{R}^1)_2$,

$-\text{Q}^1-\text{Q}^2-$ denotes $-\text{CHR}^3-\text{CHR}^4-\text{CHR}^5-\text{CHR}^6$,
 $-\text{CR}^2=\text{CR}^3-\text{CR}^4=\text{CR}^5-\text{CR}^6=$ or
 $-\text{CR}^7=\text{CR}^8-\text{NR}^{10}-\text{CR}^9=$,

R^1 in each case, independently of one another, denotes alkyl having 1-10 C atoms or $-(\text{CH}_2)-\text{R}^{11}$,

R^2-R^6 denote hydrogen or alkyl having 1-10 C atoms,

R^7-R^9 denote hydrogen, alkyl having 1-10 C atoms or aryl,

R^{10} denotes alkyl having 2-8 C atoms or $-(\text{CH}_2)-\text{R}^{11}$,

R^{11} denotes perfluorinated or partially fluorinated alkyl having 1-8 C atoms,

R^{F} denotes perfluorinated alkyl having 2-8 C atoms, and

aryl denotes phenyl, perfluorinated phenyl, or phenyl or perfluorinated phenyl which is substituted by alkyl having 1-8 C atoms,

where the compounds

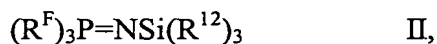
1-methyl-3-ethylimidazolium pentafluoroethyltrifluoroborate, 1-methyl-3-ethylimidazolium (n-heptafluoropropyl)trifluoroborate and 1-methyl-3-ethylimidazolium (n-nonafluorobutyl)trifluoroborate are excluded.

2. (Original) Compounds according to Claim 1, characterised in that $-\text{Q}^1-\text{Q}^2-$ denotes $-\text{CHR}^3-\text{CHR}^4-\text{CHR}^5-\text{CHR}^6$.

3. (Currently Amended) Compounds according to Claim 1 or 2, characterised in

that the substituents R^1 are different.

4. (Original) Compounds according to Claim 1, characterised in that $-Q^1-Q^2-$ denotes $-CR^2=CR^3-CR^4=CR^5-CR^6=$.
5. (Original) Compounds according to Claim 1, characterised in that $-Q^1-Q^2-$ denotes $-CR^7=CR^8-NR^{10}-CR^9=$.
6. (Currently Amended) Compounds according to Claim 1 ~~or 5~~, characterised in that the substituents R^1 and R^{10} in the formula I are different.
7. (Currently Amended) Compounds according to ~~one or more of Claims 1 to 6~~ claim 1, characterised in that R^F denotes perfluoroethyl, perfluoropropyl or perfluorobutyl.
8. (Original) Compounds according to Claim 1:
N-methyl-N-butylpyrrolidinium pentafluoroethyltrifluoroborate,
N-methyl-N-hexylpyrrolidinium pentafluoroethyltrifluoroborate,
N-methyl-N-octylpyrrolidinium pentafluoroethyltrifluoroborate,
1-methyl-3-butylimidazolium pentafluoroethyltrifluoroborate,
1-methyl-3-hexylimidazolium pentafluoroethyltrifluoroborate,
or 1,2-dimethyl-3-butylimidazolium pentafluoroethyltrifluoroborate.
9. (Currently Amended) Process for the preparation of compounds according to ~~one or more of Claims 1 to 8~~ claim 1, characterised in that in the first step, a compound of the formula II



in which

R^F in each case, independently of one another, denotes perfluorinated alkyl having 2-8 C atoms, and

R^{12} in each case, independently of one another, denotes alkyl having 1-8 C atoms,

alkoxy having 1-8 C atoms, cycloalkyl having 3-7 C atoms, halogen or aryl,

is reacted with a fluoride of the formula III



in which

M is ammonium, alkali metal or alkaline earth metal or a metal from group 11 or 12,

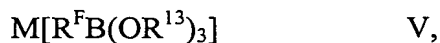
and a boric acid ester of the formula IV



in which

R^{13} in each case, independently of one another, denotes alkyl having 1-8 C atoms or aryl,

and the resultant salt of the formula V



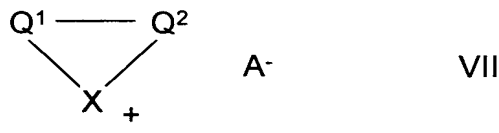
in which M, R^{F} and R^{13} have one of the above-mentioned meanings, is reacted, in the second step, with HF,

and the resultant salt of the formula VI



in which R^{F} is as defined above,

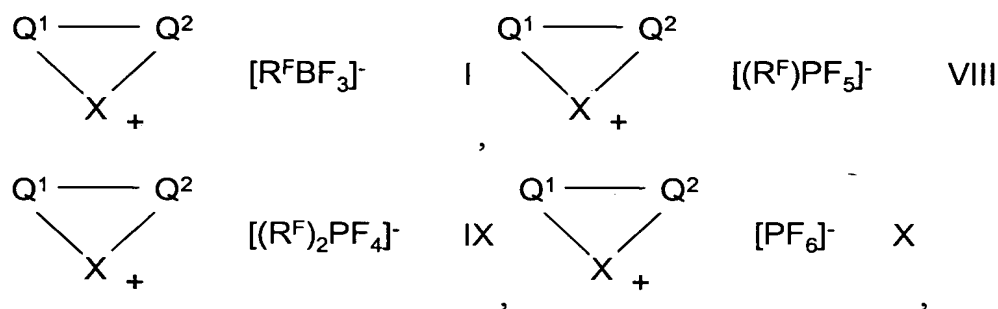
is reacted, in the third step, with a compound of the formula VII



in which X and $-\text{Q}^1-\text{Q}^2-$ are as defined for the formula I in Claims 1 to 6, and A^- denotes alkylsulfate, alkylsulfonate, trifluoromethanesulfonate, tetrafluoroborate, acetate, trifluoroacetate, bis(perfluoroalkyl)phosphinate, F^- , HF_2^- , Cl^- , Br^- or I^- .

10. (Currently Amended) Mixture of the salts of the formula I with salts of the

formulae VIII, IX and X.



where

X, -Q¹-Q²- and R^F have the meaning indicated in Claim 1 or in Claims 2 to 7.

11. (Currently Amended) Mixture according to Claim 10, characterised in that it comprises 50-75 mol% of compounds of the formula I and 25-50 mol% of compounds of the formulae VIII, IX and/or X, where X, -Q¹-Q²- and R^F ~~have the meaning indicated in Claim 1 or in Claims 2 to 7~~ denotes perfluorinated alkyl having 2-8 C atoms.

12. (Currently Amended) Use of the compounds according to ~~one or more of Claims 1-8~~ Claim 1 as ionic liquids.

13. (Currently Amended) Use of the mixture according to Claim 10 ~~or 11~~ as ionic liquid.

14. (Original) Compounds of the formula II

$$(\text{R}^{\text{F}})_3\text{P}=\text{NSi}(\text{R}^{12})_3 \quad \text{II,}$$

in which

R^F in each case, independently of one another, denotes perfluorinated alkyl having 1-8 C atoms, and

R¹² in each case, independently of one another, denotes alkyl having 1-8 C atoms, alkoxy having 1-8 C atoms, cycloalkyl having 3-7 C atoms, halogen or aryl.

15. (Original) Compounds according to Claim 14, characterised in that R^F denotes

perfluorinated C₁-C₄-alkyl.

16. (Currently Amended) Compounds according to Claim 14 ~~or 15~~, characterised in that all three substituents R^F are identical.
17. (Currently Amended) Compounds according to ~~one or more of Claims 14 to 16~~ Claim 14, characterised in that R¹² in each case, independently of one another, denotes alkyl having 1-8 C atoms.
18. (Currently Amended) Use of the compounds of ~~Claims 14 to 17~~ Claim 14 as alkylating reagents.